

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs.

2000000.00

**Name of Work: Annual maintenance of borewell in 110 village area of ward no:04 Attur Yelahaka
Satellite Town Sub Division**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete. The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps PWD SR 2018-19 P. XLI Item No. 35 including of all taxes								
	12.5 HP 25 Stage	Nos	4				4	56414.00	225656.00
2	Providing GI Pipe 50 mm 'B' Class Page No. XLVII, SI No. 1 PWD SR 2018-19								
		m	4	150.00			600.00	415.00	249000.00
3	Providing Collar 50 mm Page No. XLVII, SI No. 1 PWD SR 2018-19								
		Nos	60				60.00	180.00	10800.00
4	Submersible Cable 1x3x6.0 Sq.mm (PWD SR 2018-19 Page No. XLVII SI No. 8)								
		m	1x2	350.00			700	144.00	100800.00
5	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset should be handed over to department including transportation (Each lenth =6.00) Page No. 558, Items No-3 BWSSB SR for 2014-15)								
	(240/6)=40.00	Per Length	4	40.00			160	88.00	14080.00
6	Transportation of pumping machineries (P. 94 / I. 12.34.H) RWS SR (2019-20)								
		Each	30				30	1085.00	32550.00
7	Labour charges (over hauling) (P. 94 / I. 12.34.K) RWS SR (2019-20)								
		Each	30				30	3060.00	91800.00
8	A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. P No. 93 / I. No. 12.33) (RWS SR 2019-								
	B) 10 HP Motor		30				30	4760.00	142800.00
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700								
	111.00								
	3811.00								
Maintenance of exisiting borewells									
9	B) Replacement of Motor Parts:								
10	Starter 5 HP (with one year Guarantee) P No. 93 / I No. 12.33.2C RWS SR (2019-20)								
		Each	30				30	5535.00	166050.00
11	Rotor (with one year Guarantee) P No. 93 / I No. 12.33.3C RWS SR (2019-20)								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		Each	30				30	5175.00	155250.00
12	Upper Flange (P No. 93 / I No. 12.33.3D RWS SR (2019-20)	Each	30				30	400.00	12000.00
13	Lower Flange (P No. 93 / I No. 12.33.3E RWS SR (2019-20)	Each	30				30	400.00	12000.00
14	Upper Housing (P No. 93 / I No. 12.33.3F RWS SR (2019-20)	Each	30				30	724.00	21720.00
15	Lower Housing (P No. 93 / I No. 12.33.3G RWS SR (2019-20)	Each	30				30	724.00	21720.00
16	Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad. P. No. 94 / I No.12.34.A RWS SR (2019-20)	Each	30				30	1137.00	34110.00
17	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
18	Oil Seal P. No. 93 / I No.12.32.1C RWS SR (2019-20)	Each	30				30	171.00	5130.00
19	Oil Seal Steel bush P. No. 152 / I No.12.32.1D RWS SR (2019-20)	Each	30				30	171.00	5130.00
20	Guide vane P. No. 93 / I No.12.32.1E RWS SR (2019-20)	Each	215				215	450.00	96750.00
21	Impeller Shell moulded with aluminium Bronze) P. No. 93 / I No.12.32.1F RWS SR (2019-20)	Each	215				215	682.00	146630.00
22	Discharge outlet (D.O) Bearing D.O Steel Bush P. No. 93 / I No.12.32.1G RWS SR (2019-20)	Each	30				30	640.00	19200.00
23	Steel bush (D.O steel bush) P. No. 93 / I No.12.32.1I RWS SR (2019-20)	Each	30				30	213.00	6390.00
24	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) P. No. 93 / I No.12.32.1K RWS SR (2019-20)	Each	30				30	1281.00	38430.00
25	Non – return valve (NRV) assembly complete with rubber 'O' Ring P. No. 93 / I No.12.32.1N RWS SR (2019-20)	Each	30				30	315.00	9450.00
26	Cable Guard P. No. 93 / I No.12.32.1O RWS SR (2019-20)	Each	30				30	176.00	5280.00
27	Brass Filter P. No. 93 / I No.12.32.1Q RWS SR (2019-20)	Each	30				30	636.00	19080.00
28	Re-erection charges of pumping machineries including overhauling and pointing P. No. 93 / I No.12.34.I RWS SR (2019-20)	Each	30				30	1711.00	51330.00
								TOTAL	1693136.00
								GST 18% (PWD 2018-19 items)	304764.48
								Sub Total	1997900.48

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
								Miscellaneous	2099.52
								Total	2000000.00

CERTIFICATE

- 1 The work spot has been inspected and the work is found necessary.
- 2 This Estimate is prepared as per C.S.R. of PWD 2018-19 PWD Electrical 2017-18, PRED 2017 -18& RDED SR 2014-15 & SE RDED approved Rate.
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No-04

Executive Engineer
Yelahanka Division
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
Bruhat Bangalore Mahanagara Palike

Administrative Approval

Accorded For 20.00 Lakhs
Head of A/C P-3726
CER NO : 12 Dt: 08/08/2022

TA

CE (YNK)

Technical Sanction

Accorded For 20.00 Lakhs
Head of A/C P-3726
CER NO : 50 Dt: 8/8/2022